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Rare Earth Catalysis: From Synthesis to Sustainable Applications

Guest Editors:

Dr. Jixing Liu

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submissions:

Message from the Guest Editors

Prof. Dr. Changjin Tang This Special Issue is devoted to the synthesis of rare earth catalysts and their applications in such sustainable fields Prof. Dr. Qiulin Zhang as environment protection, energy generation, and the production of chemicals. The main attention will be **Dr. Wenxiang Tang** focused on comprehensive experimental studies of synthesis, characterization, and evaluation of catalyst performance in areas such as, but not limited to, CO oxidation, NO reduction, N2O decomposition, NH3 partial oxidation, NH3 synthesis, NH3 decomposition, water-gasshift (WGS), CH4 conversion, CO2 reduction, hydrogen evolution reaction (HER), and oxygen reduction reaction Deadline for manuscript (ORR). The proposed topics include, but are not limited to, 30 September 2024 the following:

- Preparation of rare earth catalysts;
- Characterization of rare earth catalysts;
- Rare earth catalysis in environment protection (CO oxidation, NO reduction, VOCs elimination and et al.):
- Rare earth catalysis in energy generation (CO2 reduction, H2 generation);

Specialsue

• Rare earth catalysis for chemicals production.



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